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PATENT & TRADEMARK OFFICE

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**ATTORNEY-DOCKET NO.: Q62250**
**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

HAMADOU, Mehdi, et al.

Appln. No.: 09/771,631 Group Art Unit: 2122

Confirmation No.: 1269 Examiner: Unassigned

Filed: January 30, 2001

For: A SYSTEM HAVING A MODEL-BASED USER INTERFACE FOR OPERATING AND MONITORING A DEVICE AND A METHOD THEREFOR

**SUBMISSION OF FORMAL DRAWINGS**

Commissioner for Patents
Washington, D.C. 20231

Sir:

In response to the Notice of Incomplete Reply (Nonprovisional) -- copy enclosed -- submitted herewith please find 12 sheets of formal drawings. The Examiner is respectfully requested to acknowledge receipt of these formal drawings.

Respectfully submitted,

George F. Lehnigk
Registration No. 36,359

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Telephone: (202) 293-7060
Facsimile: (202) 293-7860

Date: June 7, 2001

APPROVED O.G. FIG.
BY
DRAFTSMAN
CLASS SUBCLASS

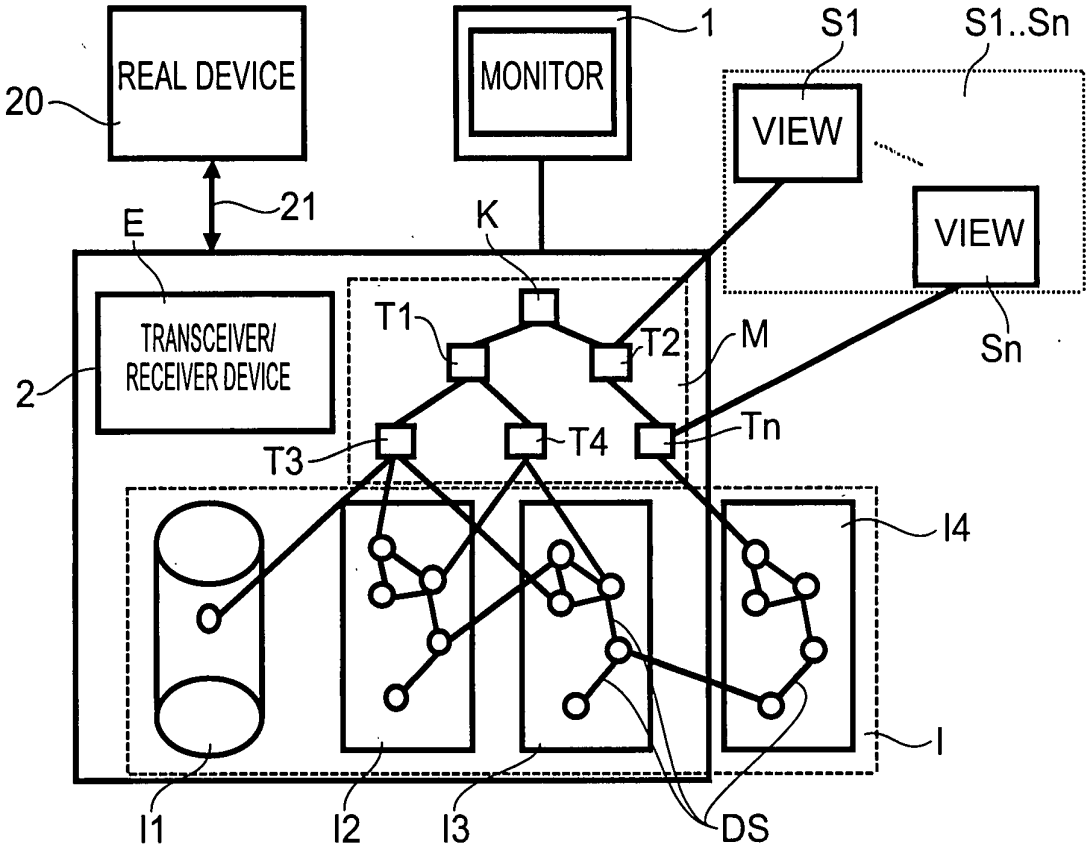
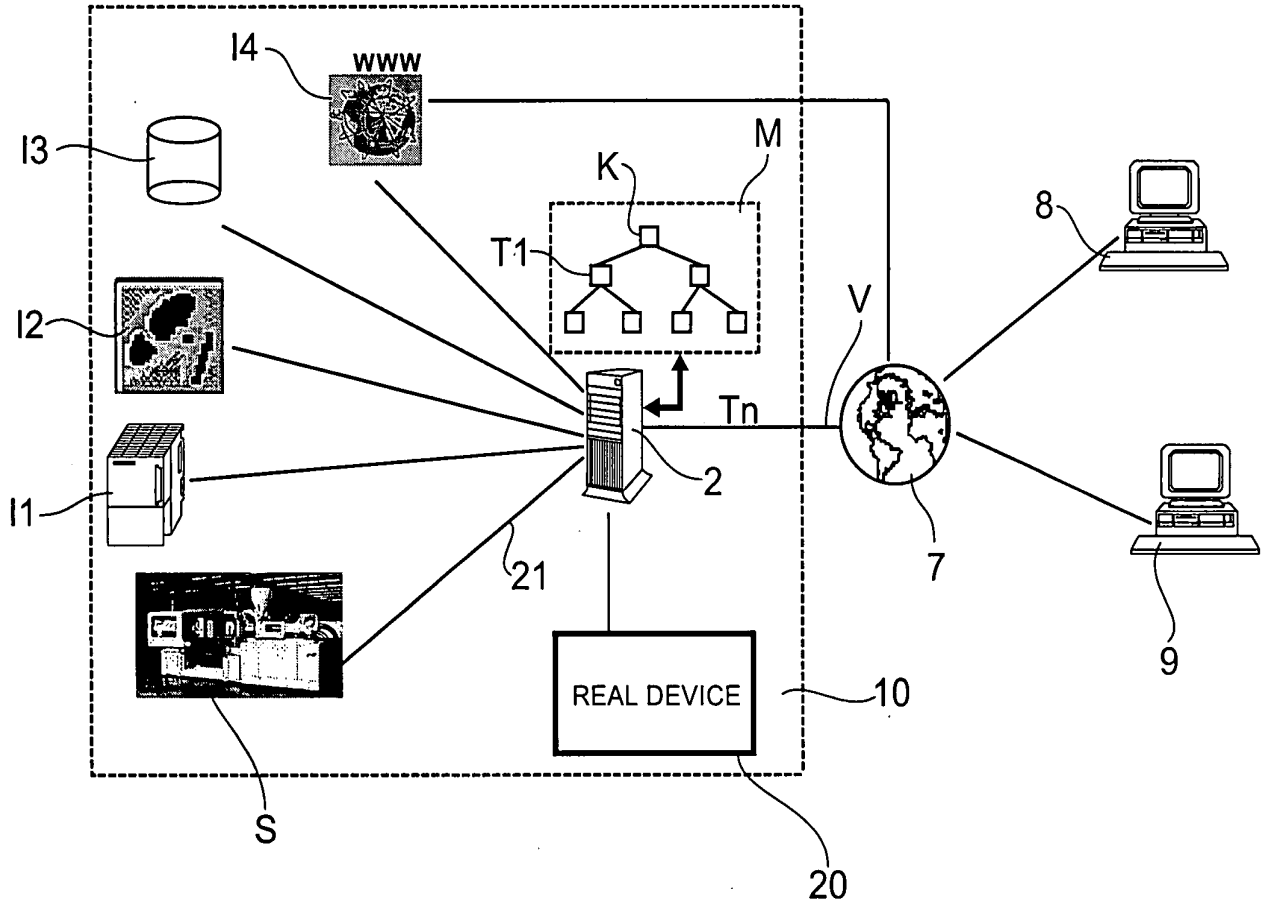



FIG. 1

APPROVED O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

FIG. 2



APPROVED O.G. FIG.
CLASS SUBCLASS

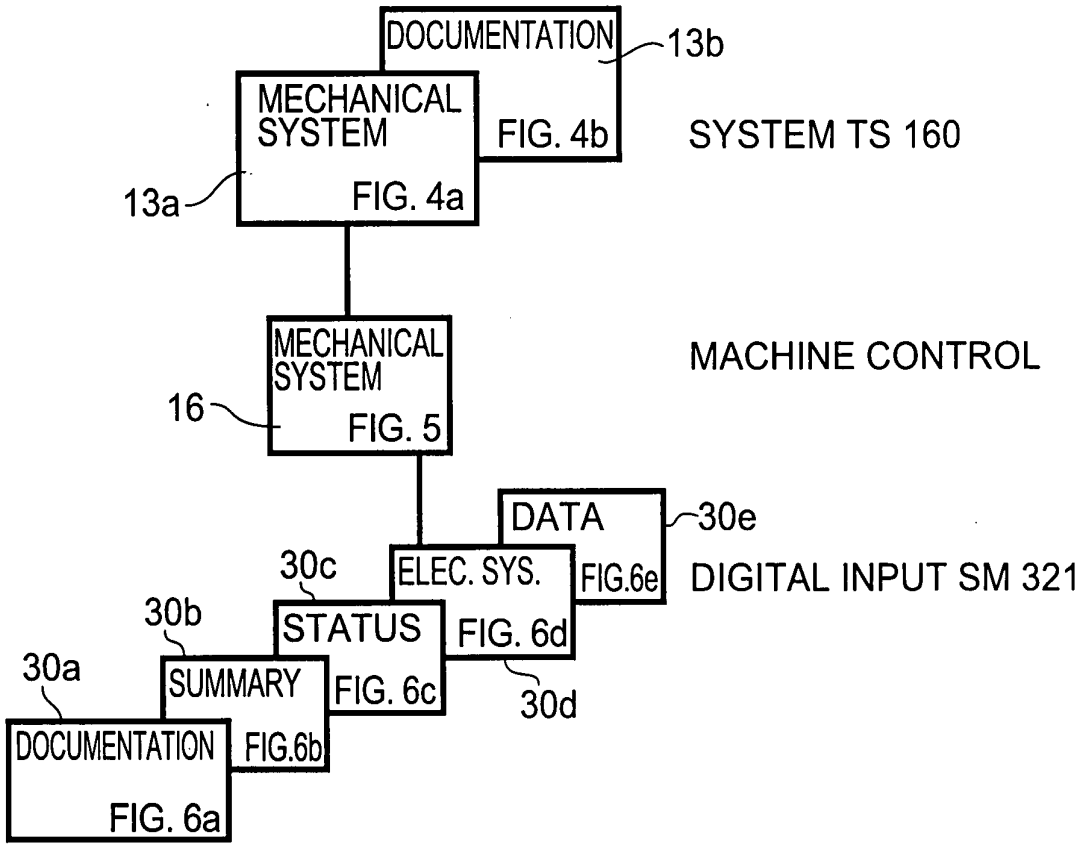
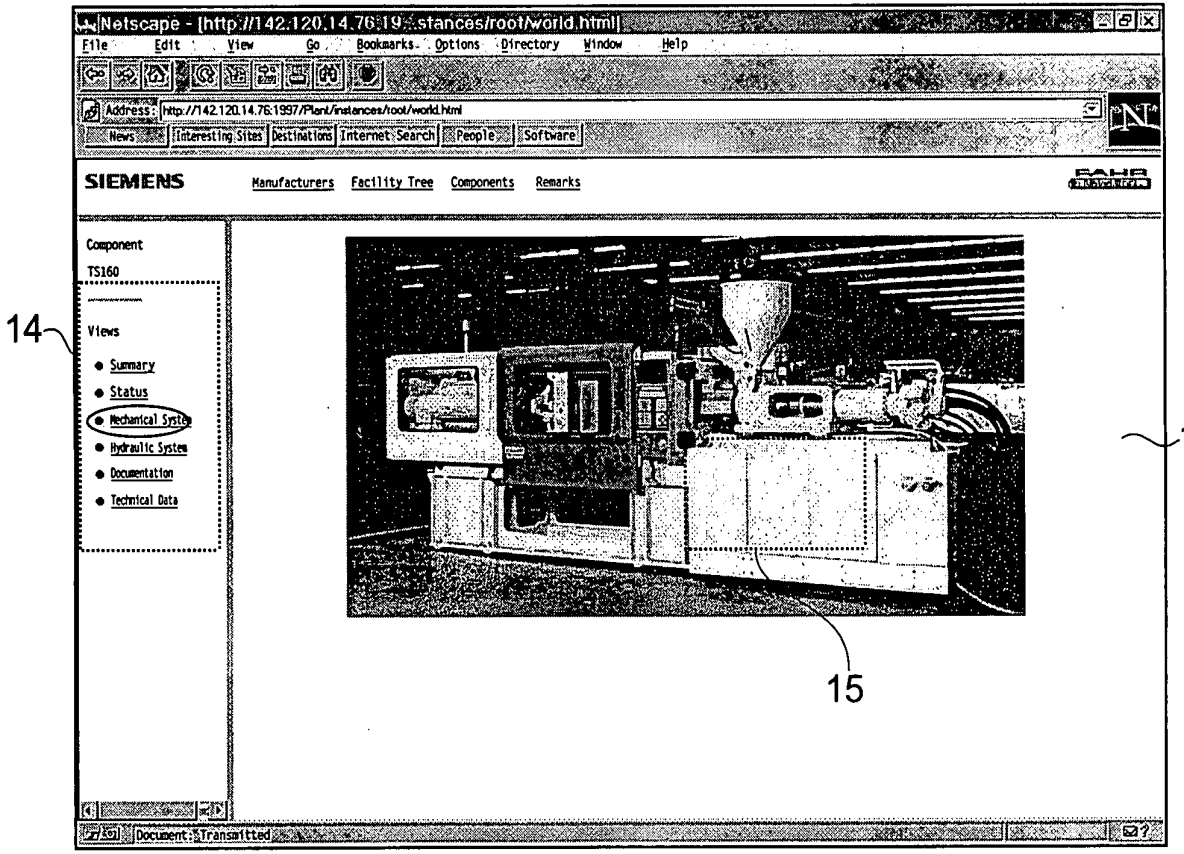



FIG. 3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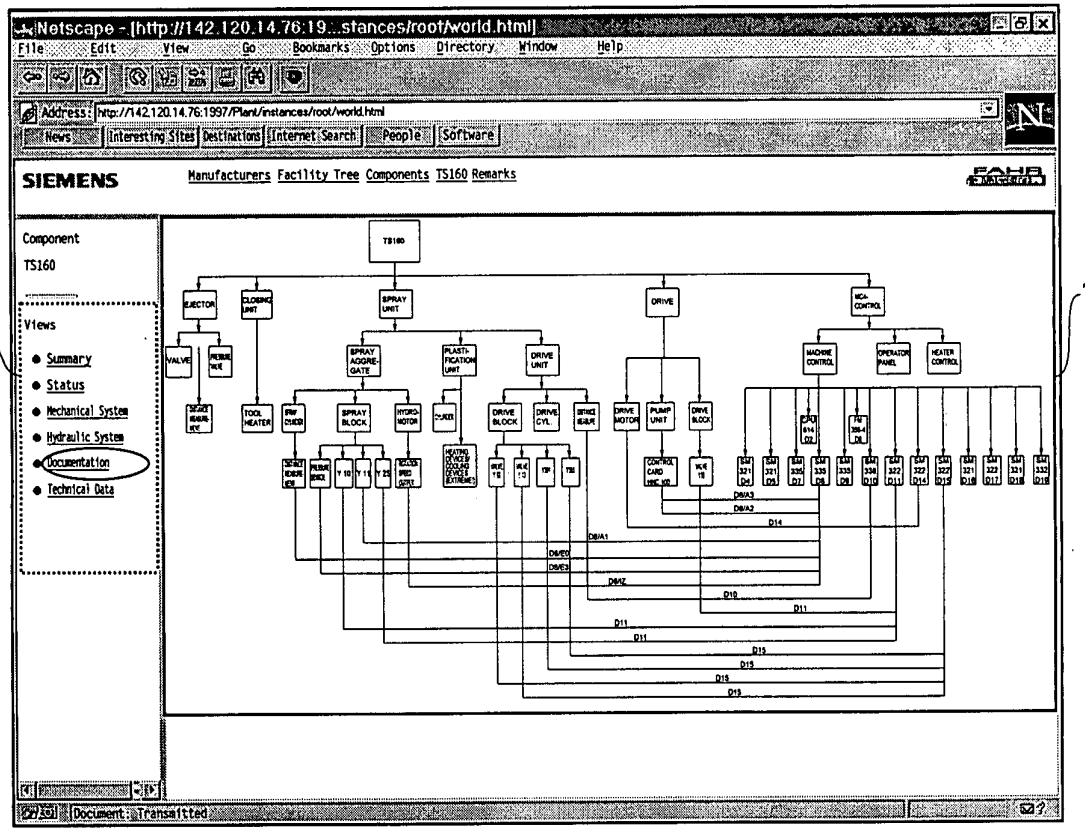
File Edit View Go Bookmarks Options Directory Window Help
Address: http://142.120.14.76:1997/Plant/instances/root/world.html
News Interesting Sites Destinations Internet Search People Software
SIEMENS
Manufacturers Facility Tree Components Remarks
Component
TS160
Views
Summary
Status
Mechanical Syste
Hydraulic System
Documentation
Technical Data
Document: Transmitted
14
13a
15

FIG. 4a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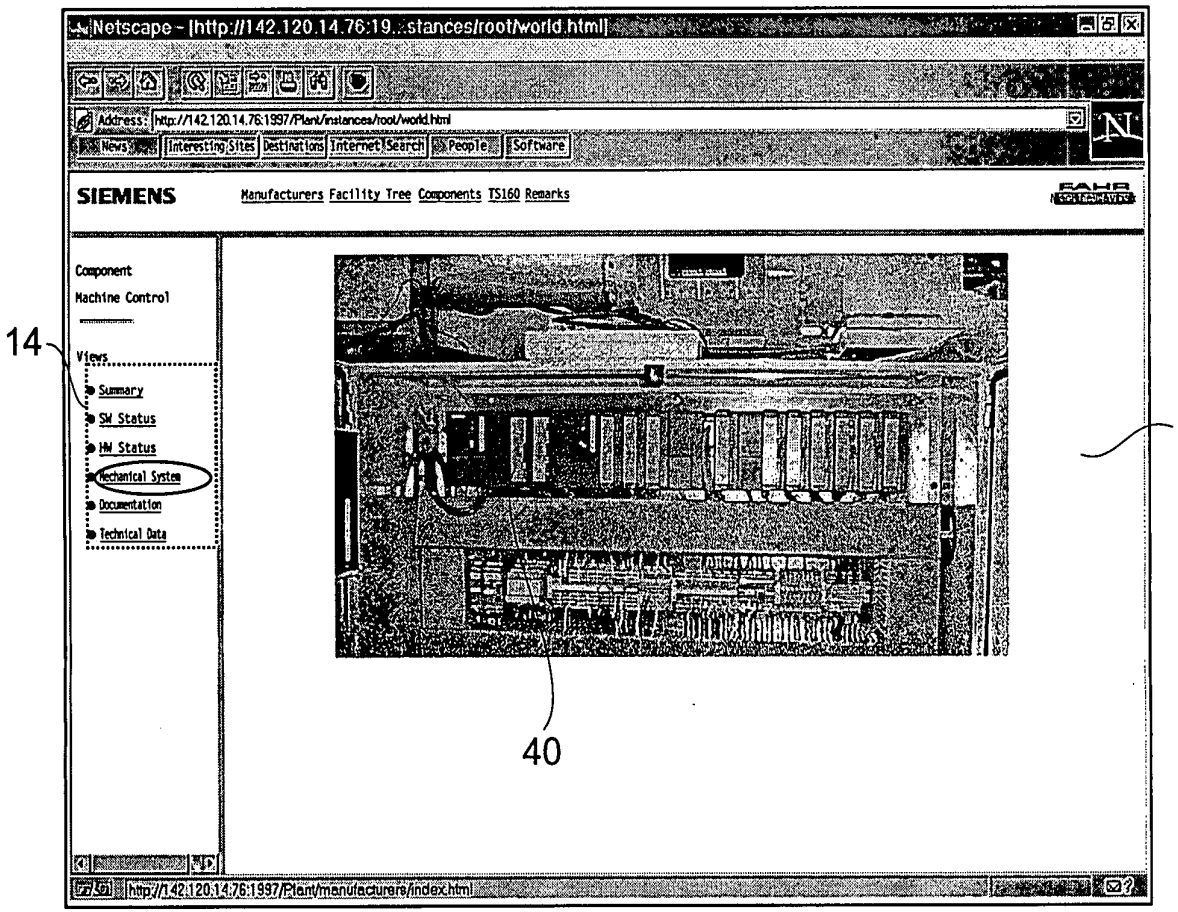
SIEMENS
Manufacturers Facility Tree Components TS160 Remarks
Component
TS160
Views
Summary
Status
Mechanical System
Hydraulic System
Documentation
Technical Data
Document: Transmitted
14
13b

FIG. 4b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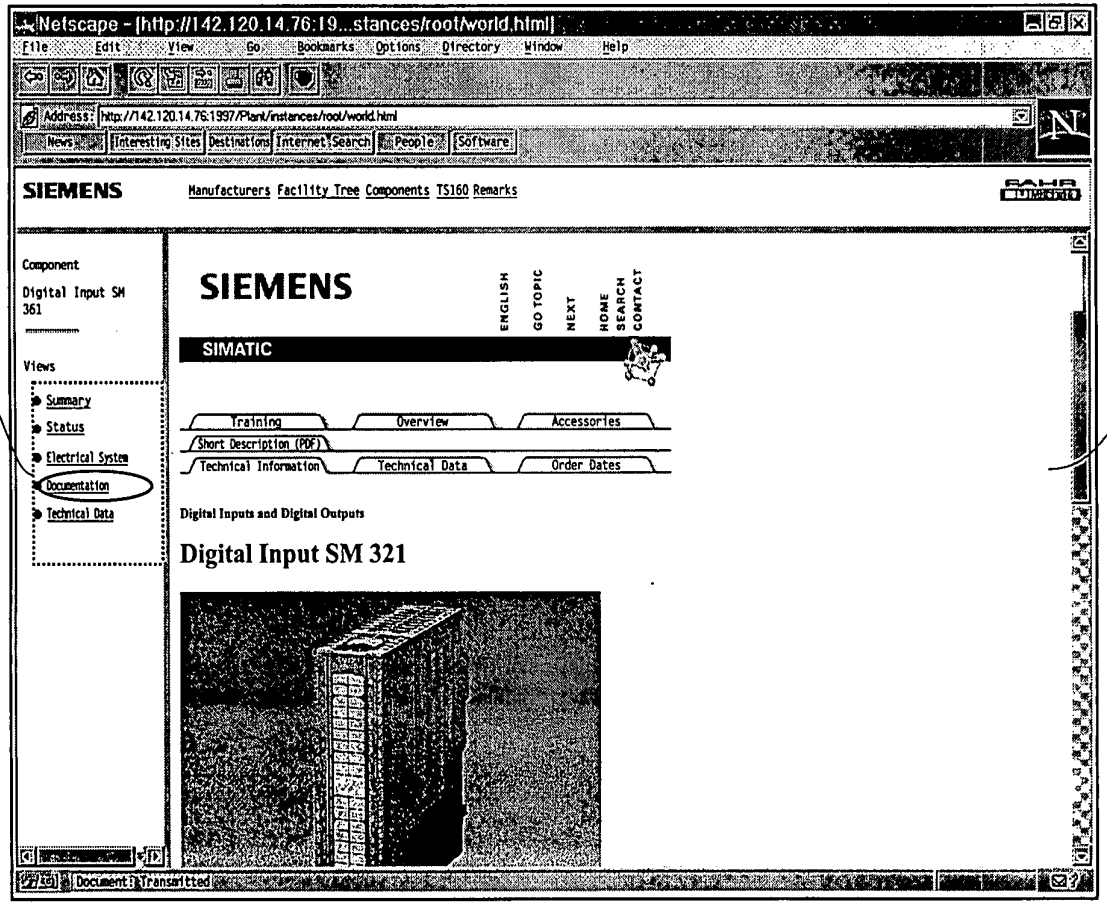
News
Interesting Sites
Destinations
Internet Search
People
Software
SIEMENS
Manufacturers Facility Tree Components TS160 Remarks
Component
Machine Control
Views
Summary
SW Status
HW Status
Mechanical System
Documentation
Technical Data
http://142.120.14.76:1997/Plant/manufacturers/index.html
14
16a
40

FIG. 5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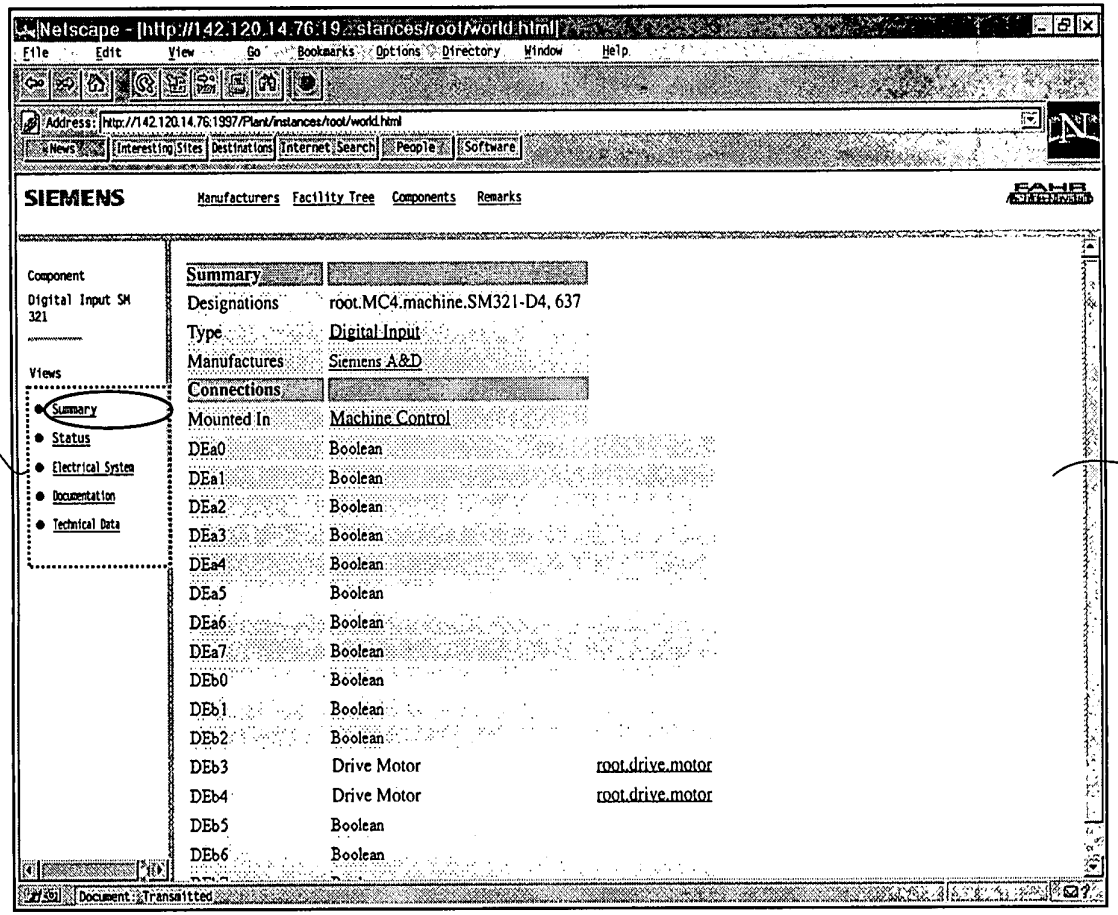
Address: http://142.120.14.76:1997/Plant/instances/root/world.html
News Interesting Sites Destinations Internet Search People Software
SIEMENS
Manufacturers Facility Tree Components TS160 Remarks
Component
Digital Input SM 361
Views
Summary
Status
Electrical System
Documentation
Technical Data
SIEMENS
ENGLISH GO TOPIC NEXT HOME SEARCH CONTACT
SIMATIC
Training Overview Accessories
Short Description (PDF)
Technical Information Technical Data Order Dates
Digital Inputs and Digital Outputs
Digital Input SM 321
Document: Transmitted
14
30a

FIG. 6a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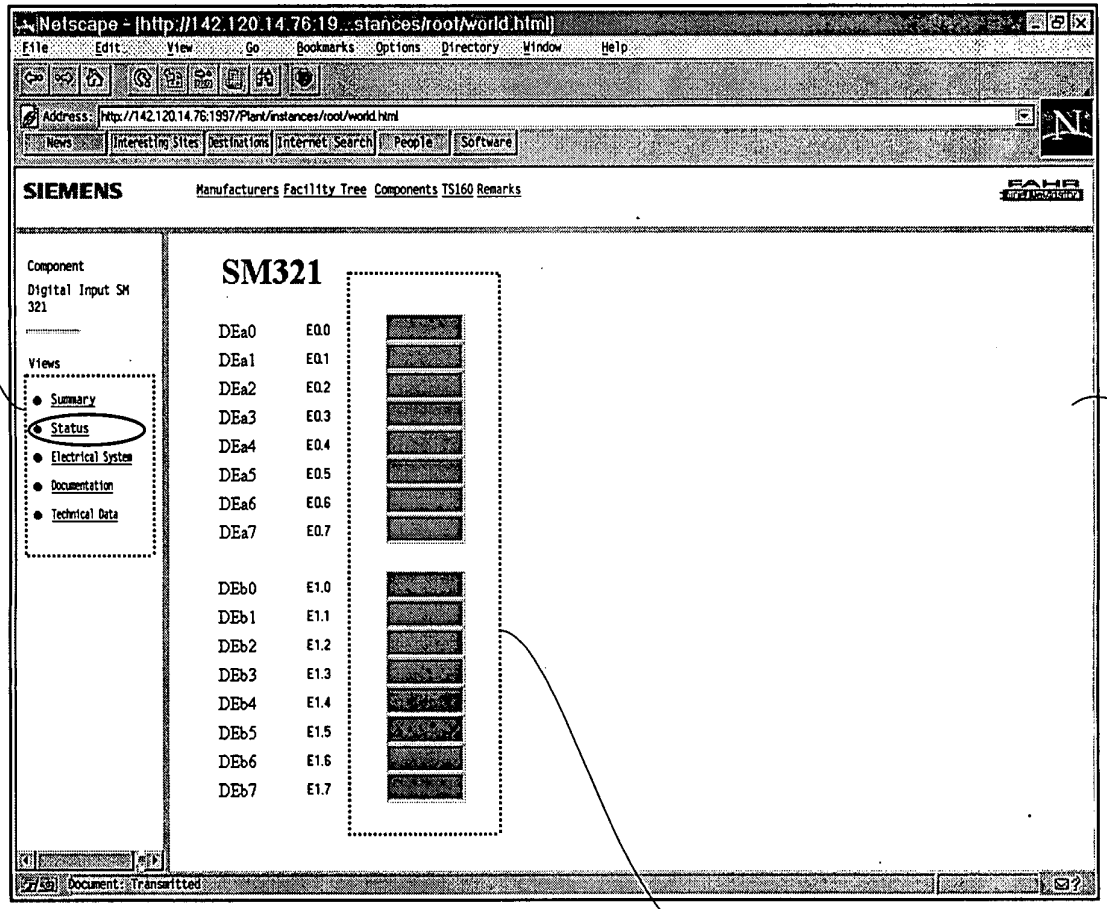
Address: http://142.120.14.76:1997/Plant/instances/root/world.html
News Interesting Sites Destinations Internet Search People Software
SIEMENS
Manufacturers Facility Tree Components Remarks
Component
Digital Input SM 321
Views
Summary
Status
Electrical System
Documentation
Technical Data
Summary
Designations root.MC4.machine.SM321-D4, 637
Type Digital Input
Manufactures Siemens A&D
Connections
Mounted In Machine Control
DEa0 Boolean
DEa1 Boolean
DEa2 Boolean
DEa3 Boolean
DEa4 Boolean
DEa5 Boolean
DEa6 Boolean
DEa7 Boolean
DEb0 Boolean
DEb1 Boolean
DEb2 Boolean
DEb3 Drive Motor root.drive.motor
DEb4 Drive Motor root.drive.motor
DEb5 Boolean
DEb6 Boolean
Document: Transmitted
14
30b

FIG. 6b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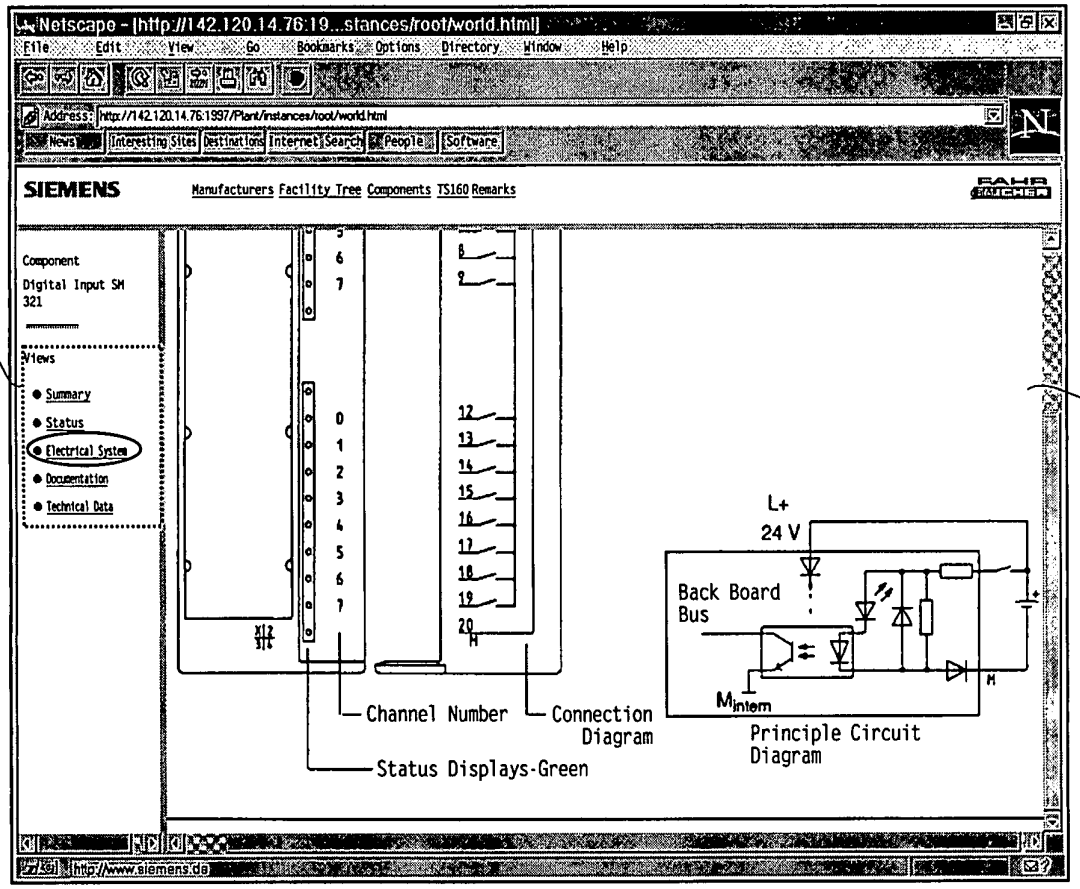
Address: http://142.120.14.76:1997/Plant/instances/root/world.html
News Interesting Sites Destinations Internet Search People Software
SIEMENS
Manufacturers Facility Tree Components TS160 Remarks
Component
Digital Input SM 321
Views
Summary
Status
Electrical System
Documentation
Technical Data
SM321
DEa0 E0.0
DEa1 E0.1
DEa2 E0.2
DEa3 E0.3
DEa4 E0.4
DEa5 E0.5
DEa6 E0.6
DEa7 E0.7
DEb0 E1.0
DEb1 E1.1
DEb2 E1.2
DEb3 E1.3
DEb4 E1.4
DEb5 E1.5
DEb6 E1.6
DEb7 E1.7
Document: Transmitted
14
30c
17

FIG. 6c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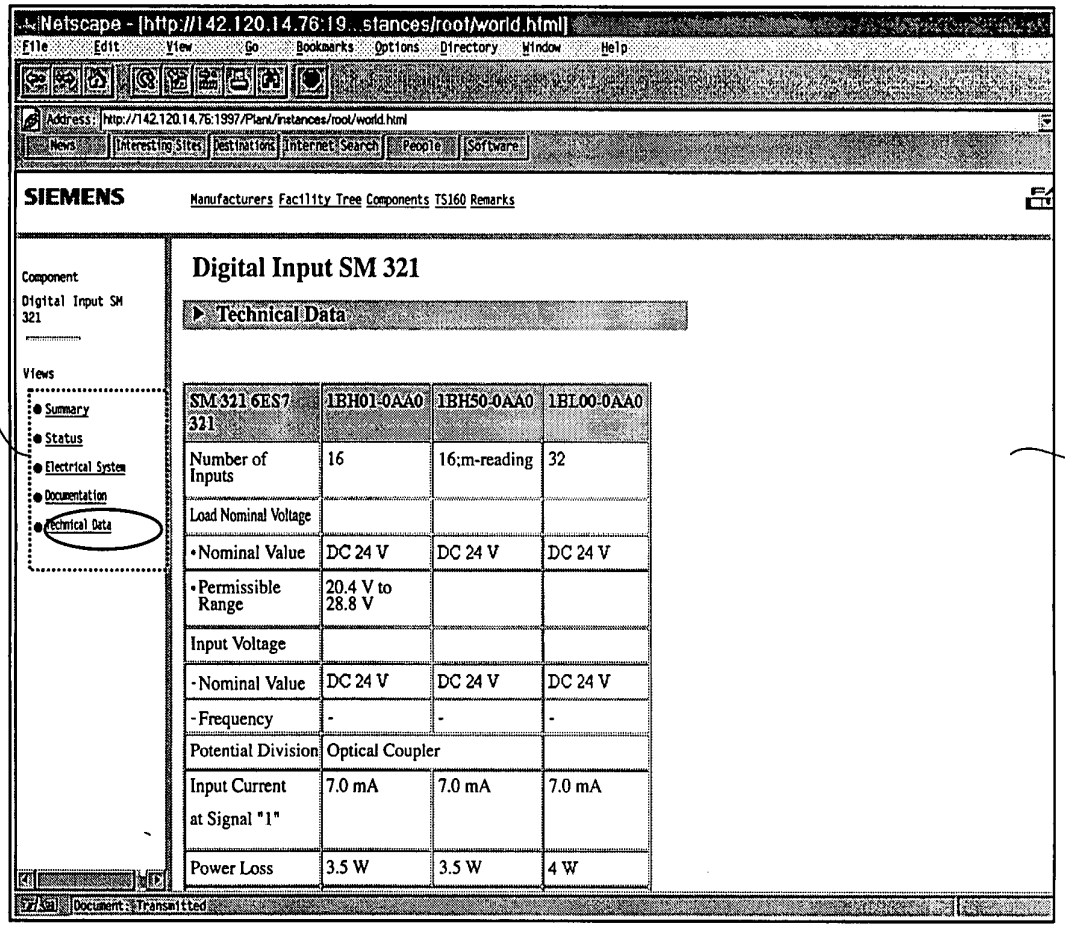
File Edit View Go Bookmarks Options Directory Window Help
Address: http://142.120.14.76:1997/Plant/instances/root/world.html
News Interesting Sites Destinations Internet Search People Software
SIEMENS
Manufacturers Facility Tree Components TS160 Remarks
Component
Digital Input SM 321
Views
Summary
Status
Electrical System
Documentation
Technical Data
14
30d
L+
24 V
Back Board Bus
M intern
Channel Number
Connection Diagram
Status Displays-Green
Principle Circuit Diagram
http://www.siemens.de

FIG. 6d




| SM 321 6ES7 321 | 1BH01-0AA0 | 1BH50-0AA0 | 1BL00-0AA0 |
|---|---|---|---|
| Number of Inputs | 16 | 16;m-reading | 32 |
| Load Nominal Voltage | | | |
| •Nominal Value | DC 24 V | DC 24 V | DC 24 V |
| •Permissible Range | 20.4 V to 28.8 V | | |
| Input Voltage | | | |
| -Nominal Value | DC 24 V | DC 24 V | DC 24 V |
| -Frequency | - | - | - |
| Potential Division | Optical Coupler | | |
| Input Current at Signal "1" | 7.0 mA | 7.0 mA | 7.0 mA |
| Power Loss | 3.5 W | 3.5 W | 4 W |

FIG. 6e

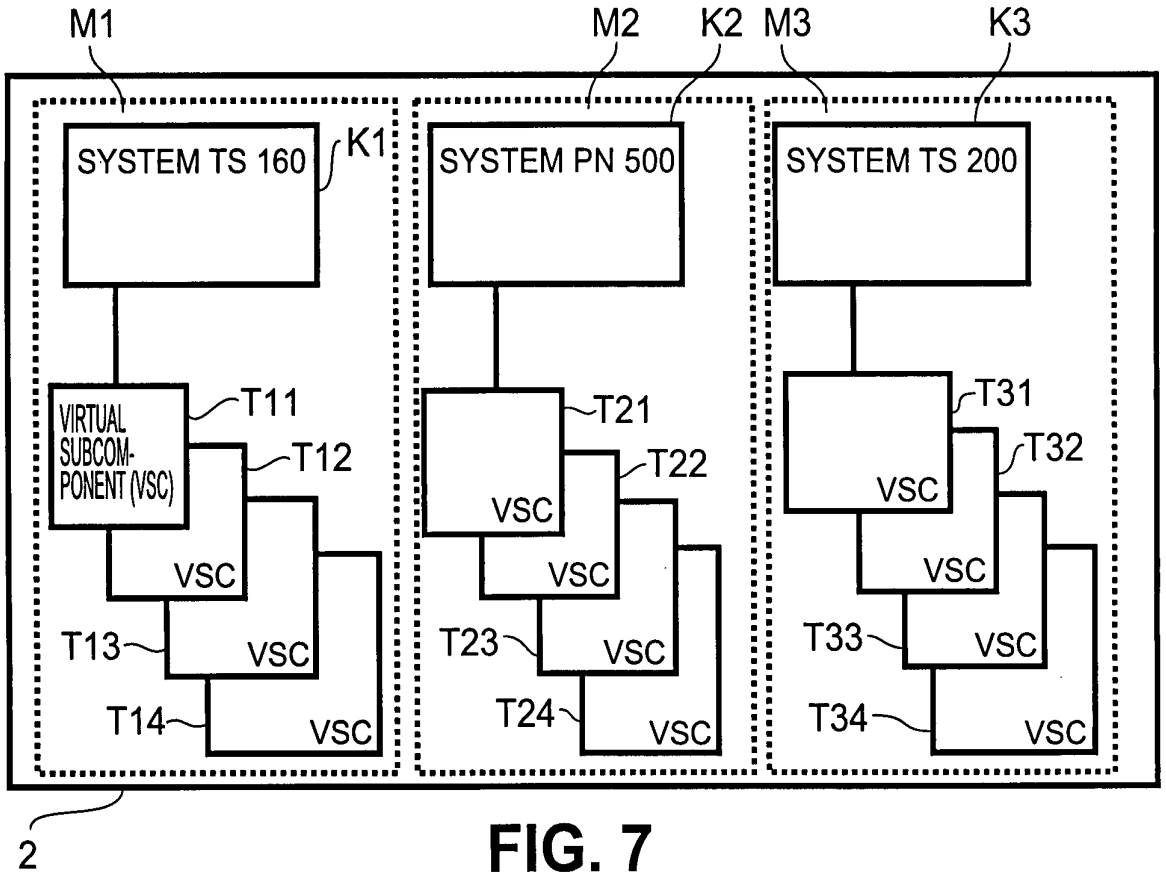

M1
M2
K2
M3
K3
SYSTEM TS 160
K1
SYSTEM PN 500
SYSTEM TS 200
VIRTUAL SUBCOM-PONENT (VSC)
T11
T12
VSC
T13
VSC
T14
VSC
T21
VSC
T22
VSC
T23
VSC
T24
VSC
T31
VSC
T32
VSC
T33
VSC
T34
VSC
2

FIG. 7